

Practice A

For use with pages 19–24

Solve the equation. Check your solution.

1. $x + 3 = 0$

2. $x - 7 = 2$

3. $5 + x = 4$

4. $-18 + x = 6$

5. $5 = x + 2$

6. $-3 = x - 11$

7. $6x = 24$

8. $5x = -15$

9. $\frac{1}{3}x = 6$

10. $-\frac{4}{3}x = 8$

11. $3 = -9x$

12. $4 = 12x$

13. $-3 = x - 8$

14. $-3x = 12$

15. $6x = 20$

16. $x + \frac{1}{2} = \frac{3}{8}$

17. $\frac{1}{3} + x = \frac{5}{6}$

18. $x - \frac{3}{4} = \frac{1}{12}$

19. $x - \frac{2}{3} = -3$

20. $4x = \frac{1}{3}$

21. $7x = \frac{14}{5}$

22. $5x - 2 = 13$

23. $9 - 3x = -3$

24. $x + 4 = 2x + 9$

Describe the error. Then write the correct steps.

25. $x + 6 = 17$
 $x = 23$

26. $x - 12 = 2$
 ~~$x = -10$~~

27. $5x = 10$
 ~~$x = 50$~~

28. $2x + 1 = 7$
 $2x = 8$
 $x = 4$

29. $3x - 2 = 7$
 $3x = 9$
 $x = 27$

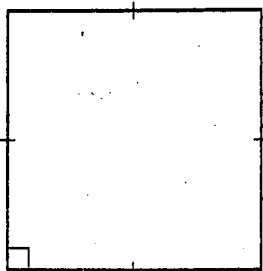
30. $2(x + 3) = 8$
 $2x + 3 = 8$
 $2x = 5$
 $x = \frac{5}{2}$

31. $3x - 3 = 2x + 1$
 $5x = 4$
 $x = \frac{4}{5}$

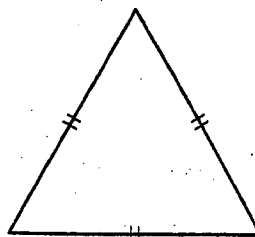
32. $\frac{1}{2}x - 4 = 2$
 $\frac{1}{2}x = 6$
 $x = 3$

33. $\frac{3}{2}(2x + 1) = 5$
 $3x + 1 = 5$
 $3x = 4$
 $x = \frac{4}{3}$

- 34.
- Perimeter**
- The perimeter of a square is 36 inches. Find its dimensions.



- 35.
- Perimeter**
- An equilateral triangle has sides of equal length. Find the dimensions of an equilateral triangle with a perimeter of 39 inches.



- 36.
- Sales Tax**
- The state sales tax in Pennsylvania is 0.06 (or 6%). If your total bill at the music store included \$1.32 in tax, how much did the merchandise cost?

- 37.
- Movie Tickets**
- A ticket to the movies costs \$7. You have \$21. How many tickets can you buy?